

AL'PEROVICH, Ye.V.; LAGAY, A.S.

Age of "oolite" formation in the northwestern part of the Lake Balkhash  
region. Izv. AN Kazakh. SSR. Ser. geol. 22 no.4:45-47 Jl-Ag '65.  
(MIRA 18:9)  
I. Institut geologicheskikh nauk im. K.I.Satpayeva, g. Alma-Ata.

EAGAYEV, M.M. (Moskva)

Principal astronomical observations in 1962. Priroda 50 no.12:  
124-128 D '61. (MIRA 14:12)  
(Astronomy--Observations)

LAGAZIDZE, G.I.

LAGAZIDZE, G.I.

Ecological forms of agents inducing verticillium wilt in cotton  
plants. Izv. AN Azerb.SSR no.4:55-62 Ap'55. (MLRA 8:11)  
(Cotton--Diseases and pests)

Lagazidze, G. I.

USSR / General and Special Zoology. Insects. Insects  
and Arachnids. Biological Method of Controlling  
Insects and Arachnids.

P

Abs Jour: Ref Zhur-Biol., No 21, 1958, 96602.

Author : Lagazidze, G. I.; Dzhamalov, G. I.

Inst : Not given.

Title : Parasites of the Nibbling Cutworm Moth and  
Their Value in Azerbaydzhan SSR.

Orig Pub: V cb.: Ref. nauchno-issled. rabot po khlopko-  
vodstvu. Tashkert, AN UzSSR, 1957, 207-214.

Abstract: Data on the infestation by parasitos of the cat-  
erpillars and pupae of the winter and certain  
other nibbling cutworm moths in various Azor-  
baydzhan regions in 1954-1955. The greatest in-  
festation was noted in third generation cater-  
pillars of the winter cutworm moth (62.5%) in

Card 1/2

LAGEDA, E.; ALUMAE, T.

Phenols obtained from the semicoking of shale. In Russie. p. 173.

ESTI LOODUS. (Eesti NSV Teaduste Akadeemja) Tartu, Estonia  
Vol. 8, no. 3, 1959.

Monthly List of East European Accessions (EEAI), Vol. 8, No. 4, July, 1959.  
Uncl.

KLESMENT, I., kand.tekhn.nauk; LAGEDA, E.

Separation of phenols by distributive chromatography. Izv. AN Est.  
SSR. Ser. fiz.-mat. i tekhn.nauk no.4:290-296 '64.

(MIRA 18:4)

1. Institut khimii AN Estonskoy SSR.

KLESMENT, I.; LAGERDA, E.; EYZEN, O. [Eisen, O.]

Thin-layer chromatography of phenols. Izv. AN Est. SSR. Ser.fiz.-mat.  
i tekhnauk 14 no.2:266-272 '65. (MIRA 19:1)

I. Institut khimii AN Estonskoy SSR. Submitted August 15, 1964.

KLESMENT, I.; LAGEDA, E.

Identification of phenols in gas chromatography fractions by  
catalytic dehydrogenation. Izv. AN Est. SSR. Ser.fiz.-mat.<sup>i</sup>  
tekhnauk 14 no.2:273-280 '65. (MIRA 19:1)

1. Institut khimii AN Estonskoy SSR. Submitted April 30, 1964.

LAGEDA, Peeter, kand.ekon. nauk; RIIKOJA, L., red.

[Chemicalization of the national economy] Rahva-  
majanduse kemiseerimine. Tallinn, Eesti Riiklik  
Kirjastus, 1964. 102 p. [In Estonian]  
(MIRA 18:1)

ARNA, A.Ya. [Aarna, A.], doktor tekhn. nauk, prof. (Tallin); Lagedia,  
P.R., inzh. (Tallin)

Prospects of the utilization of chamber gases. Trudy LIEI  
no. 37:101-106 '61. (MIRA 18:4)

SATAYEVA, R.M.; BEYLIN, P.Ye.; LAGEDZA, I.A.; DENISOVA, N.P.

Data on the problem of a prophylactic and therapeutic regimen and its efficacy.  
Klin.med. 31 no.9:71-74 S '53. (MLRA 6:11)

1. Makarovskaya rayonnaya bol'nitsa Kiyevskoy oblasti. (Sleep)

LAGELAYSAYA, N. A.

## PHASE I BOOK EXPLOITATION

935

Sverdlov, M. I., Candidate of Technical Sciences, and Lagelayskaya, N. A.,  
Engineer

Shtampovka na pressakh-avtomatakh; mnogooperatsionnye pressy (Stamping on  
Automatic Presses; Multiple-action Presses) Moscow, Mashgiz, 1955. 64 p.  
(Series: Biblioteka shtampovshchika, vyp. 9) 6,000 copies printed.

Gen. Ed.: Romanovskiy, Viktor Petrovich, Candidate of Technical Sciences;  
Ed.: Tsukker, G. Ye., Engineer; Ed. of Publishing House: Leykina, T. L.;  
Tech. Ed.: Sokolova, L. V.; Managing Ed. for literature on machine building  
technology (Leningrad Division, Mashgiz): Nikitin, P. S., Engineer.

PURPOSE: The booklet is intended to promote wide use of advanced cold stamping  
methods and the exchange of progressive work experience among workers in  
stamping shops.

COVERAGE: In this, the 9th booklet of the Stamping Press Operator's Little Library,  
stamping methods used on multiple-action automatic presses are presented and  
design of processes for making parts. Arrangements of multiple-action drawing  
presses, automatic bending presses and dies of standard design are described.  
No personalities are mentioned. There are 8 references, all Soviet.

Card 1/3

## Stamping on Automatic Presses (Cont.)

933

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AVAILABLE: Library of Congress

GO/fic  
12-8-58

Card 3/3

LAGER<sup>1</sup>, A.I.

Mining 709 meters of drift per month. Ugol' 36 no. 5:10-12 My '61.  
(MIRA 14:5)  
(Donets Basin--Coal mines and mining--Labor productivity)

LAGER!, A.I.

High-speed crosscutting in the Mine No.4-6 of the "Pervomayskugol!"  
Trust. Ugol'.prom. no.4:29-31 Jl-Ag '62. (MIRA 15:8)

1. Pomoshchnik glavnogo inzhenera shakhty 4-6 tresta "Pervomayskugol!"  
Luganskogo sovnarkhoza.  
(Donets Basin--Coal mines and mining)

LAGER', A.I.

Hydraulic jacks made of glass reinforced plastic. Ugol' Ukr. 7  
no.10:36-37 O '63. (MIRA 17:4)

1. Zamestitel' glavnogo inzhenera tresta Pervomayskugol'.

LAGER', A.I., inzh.

Rapid mining of crosscuts at "Pervomayskiyugol" Trust mines.  
Shakht. stroi. 8 no.4±19-22 Apt 64 (MIRA 17±7)

1. Trest Pervomayskugol'.

LAGER', A.I., gornyy inzh.

Conveyer haulage of coal along inclined workings in mines  
of the Pervomayskugol' Trust. Ugol' 39 no.7:35-39 J1 '64.  
(MIRA 17:10)

1. Trest Pervomayskugol'.

LAGER', A.I., inzh.

Making 302 meters of incline by wide working in one month.  
Shakht. stroi. 8 no.9:20-22 S '64. (MIRA 17:12)

1. Trest Pervomayskugol'.

POL'STER, L.A.; ZKHUS, I.D.; GUSEVA, A.N.; VAGINA, G.P.; VASIL'YEVA, L.B.;  
DOROSHKO, R.G.; KLEVITS, M.V.; LAGER, P.I.; MARASANOVA, N.V.;  
KHAYROVA, F.M.; BROD, I.O., otv.red.; MIKULAYEVA, I.N., red.izd-va;  
TUMANOVSKAYA, Ye.P., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Organic matter and clay minerals in eastern Ciscaucasia;  
terrigenous Mesozoic and Maikop sediments] Organicheskoe  
veshchestvo i glinistye mineraly Vostochnogo Predkavkaz'ia;  
terrigennye mezozoiskie i maikopskie otlozheniya. Moskva,  
Izd-vo Akad.nauk SSSR, 1960. 205 p. (MIRA 14:2)

(Caucasus, Northern—Clay)  
(Caucasus, Northern—Organic matter)

Lagerenko S. P.  
USSR Chemistry - Varnish production

FD-1612

Card 1/1      Pub 50-16/19

Author : Podoyma, V. D.; Lagerenko, S. P.

Title : The operation of agitators of varnish-cooking kettles

Periodical : Khim. prom., No 2, 113 (49), Mar 1955

Abstract : Determined the conditions under which the highest effectiveness and least power consumption are achieved in the operation of agitators of varnish-cooking kettles. One figure, one table.

LAGEREV, V.S.

Work practice in electric engineering. Politekh. obuch. no.4:36-38  
Ap '58. (MIRA 11:3)

1. Srednaya shkola No.12, g. Bryansk.  
(Electric engineering--Study and teaching)

YABLONIK, R.M., kand. tekhn. nauk; LAGEREV, V.V., inzh.

Study of the flow of wet steam in the guide channels of  
steam turbines. Teploenergetika 10 no.11:55-60 N '63.

(MIRA 17:1)

1. Bryanskij institut transportnogo mashinostroyeniya.

LAGAREVA, M. G.

LAGAREVA, M. G. On the methods and the means for treating mange in farm animals.  
(Per material submitted to the editorial office)

So: Veterinariya; 22; (2-3); February/March 1945; Unclassified.  
TABCON

LAGEREVA, M. G.

LAGEREVA, M. G. From the laboratory practice. (Per material submitted to the editorial office).

So: Veterinariya; 23; 1; January 1946; Unclassified.

TABCON

LAGEREVA, M. G.

LAGEREVA, M. G. Blood-parasitic diseases of animals. (Per material submitted to the editorial office.)

So: Veterinariya; 23; 4; April 1946; Unclassified.  
TABCON

LAGEREVA, M. G.

LAGEREVA, M. G. About the epizootic equine lymphangitis. (per material submitted to the editorial office.)

To: Veterinariya; 23; (10-11); October/November 1946; Uncl.  
TABCON

LAGAREVA, M.G.

LAGAREVA, M. G. Cattle Diseases. (per material submitted to the editorial office.)

So: Veterinariya; 24; 9; September 1947; Unclassified.  
TABCON

LAGAREVA, M. G.

"Diseases of the young of animals."

SO: Veterinariia 24 (1), 1947, p. 14

LAGEREVA, M. G.

"Treatment and prophylaxis of helminthoses." (Per material submitted  
to the editorial office)

SO: Vet. 24 (3), 1947, p. 17

LAGAREVA, M. G.

"Therapy and prophylaxis of mange in animals. (Per material submitted to the editorial office).

SO: Vet. 24 (4) 1947, p. 13

LAGEREVA, M. G.

"Treatment of dermal diseases in agricultural animals."

SO: Veterinariia 24 (8), 1947, p. 42

LAGEREVA, M. G.

PA 61T59

USSR/Medicine - Animals - Diseases  
Medicine - Veterinary Medicine

Jan 1948

"Diseases of Young Animals," edited by M. G.  
Lagereva, 4 pp

"Veter" No 1

Presents a list of articles, and summaries, dealing with various diseases in young animals. Among those mentioned are: V. P. Loginov, "Some Features of Paratyphoid in Calves of the Altay Kray"; A. S. Solun, "Basic Tasks of Preventive Medicine in Mass Diseases of Young Animals in the Eastern Regions of the USSR"; and P. A. Bogdanov, "Prophylaxis of Infectious Diseases in Calves."

FDB

61T59

USSR/Medicine - Veterinary

FD 319

Card 1/1

Author : Lagereva, M. G.

Title : Penicillin in veterinary medical practice

Periodical : Veterinariya, 6, 44-48, June 1954

Abstract : Ten letters from veterinarians in the field are published under above title. Suggestions are offered as to the dosage and methods of administration of penicillin in the treatment of different diseases in cattle. One correspondent suggests that injection of 2% solution of pyramidone sustains therapeutic concentration of penicillin in blood for 12 hours. Another suggests norsulfazole-penicillin combination in the treatment of pneumonia in calves. It was also reported that satisfactory results were obtained in cases of pulmonary diseases in calves as result of injection of penicillin and alkaline alcohol solution of sulfidine.

Institution :

Submitted :

:

LAGEREVA, M.G.

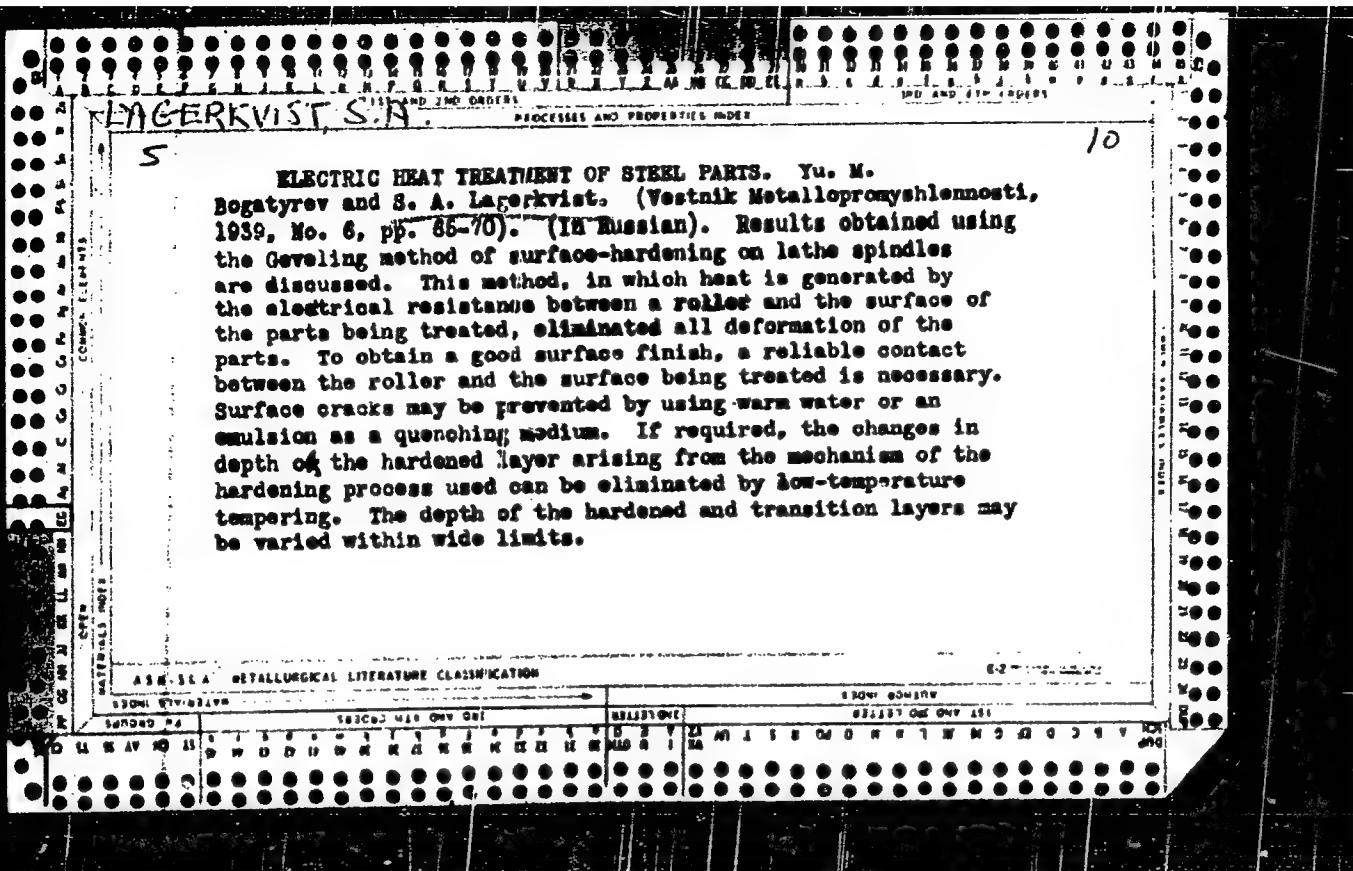
Diseases of young animals. Veterinariia. 31 no.2:42-48 F '54.  
(MIRA 7:2)  
(Domestic animals--Diseases)

LAGEREVA, M.M.

Observations of outpatients with glaucoma in the F.E.  
Dzerzhinskii Polyclinic. Sbor.nauch.-prak.rab.Poliklin.im.  
F.E.Dzerzh. no.2:232-233 '61. (MIRA 16:4)  
(GLAUCOMA)

VOLOSHCHENKO, M.V.; Prinimali uchastiye: UDOVIKOV, I.K.; LAGEREVA, Z.I.;  
KOTSEGUB, L.V.

Hardenability of ordinary and alloyed high strength cast iron  
with spheroidal graphite. Nauch. trudy Inst. lit. proizv. AN  
URSR no.10:72-80 '61. (MIRA 15:6)  
(Cast iron--Hardening)



*Lagerkvist, S.A.*

S7(1)

87/1521

Scientific machine-building Institute Technological and Metallurgical

Electrothermicheskaya Obshchina i elektrosvarkovye upravleniya [Sovietic  
Electric Heat Treatment and Electrowelding Syndicate or Partial Collection of  
Articles] Moscow, Naukova Dumka, 1976. 213 p. (Sovetskaya Sotsia [Study] No. 89)  
Russian copy inserted. 3,000 copies printed.

M. I. N. Mekhanicheskii, Relyeer (Bogorodsk) M. of Publishing House: I. Yu.  
Gulyayev Sov. Ed. A. P. Umarov, M. M. Gulyayev Ed. for Literature on General Tech-  
nical and Transport Machine Building (Machine); L. A. Rodomyslova, Enginner.  
  
PURPOSE. This collection of articles is intended for engineering staffs of plants  
and scientific research stations dealing with electric heating, electric heating  
systems, and development breeding of metals.

CONTENTS. This collection of articles presents the results of scientific research  
work carried out by the Department of Tsvitmet (Central Scientific Research  
Institute of Technology and Machinery) on electric heating in the field of high  
and superhigh-frequency heating and electrospark hardening of machine parts.  
The problems of surface hardening, through hardening and tempering of steel,  
and heat treatment of various induction-heating and electrospark methods and the results  
of investigations on the effects of electric-heat treatment and electrospark  
heating on the properties of steel and cast iron are described. A brief re-  
view of industrial applications of induction heating outside the Soviet Union  
was also presented. Various electric-heating and electrospark hardening equip-  
ment developed by Tsvitmet are described. The book was written for the  
Scientific Research Institute of the Scientific Research Work of Tsvitmet, Department of  
water oil, and by other wider cooling agents, and the effect of the  
medium and the temperature of annealing are also discussed.

Author's Note. Engineer. Low-voltage Equipment for Industrial Frequency  
Induction Heating. Structure, Machines, and Depth

170

The author discusses various types of induction, including  
ductile, ferrous, non-ferrous, heating of large parts using 50  
cycles and up to 50 milliampere current. The simplicity of the construction  
of such machines is indicated.

Author's Note. G. I. Chashnik of Technical Science. Structure, Machines, and Depth  
of Layer Hardened by the Electrospark Method

186

The author discusses the mechanism of the electrospark hardening  
process and the effect of the current band and heating time on the  
penetrating depth and depth of the layer. The dependence of hardness on the  
penetrating regime and on the carbon content in processed steel is also  
indicated. Results of analysis of the structure are given. The author  
notes that methods for mechanization of this process are now being de-  
veloped.

Author's Note. G. S. Chashnik of Technical Science. Electrospark Equipment  
Developed by Tsvitmet

204

The author describes construction of two apparatus, the T-25-24 and T-25-  
26 developed by Tsvitmet for electrospark hardening of steel surfaces.  
Technical specifications for both are given and directions for operating  
the machine and reveals that can be obtained with them are included.

LAGERNIKOV, G.N.

136-1-4/20

AUTHORS: Benenson, V.D., Strod, A.P. and Lagernikov, G.N.

TITLE: Operating Results of the Zolotushinsk Beneficiation Works under a Staged Flow Sheet (Rezul'taty raboty Zolotushinskoy obogatitel'noy fabriki po stadijal'noy skhemе)

PERIODICAL: Tsvetnye Metally, 1958, No.1, pp. 16 - 18 (USSR)

ABSTRACT: The authors describe the staged concentration of complex copper-lead-zinc ores at the Zolotushinsk Beneficiation Works. The practice was developed by works personnel in close co-operation with the Uralmekhanobr Institute. Primary sulphides represent the greater part of the ore and consist of sphalerite, chalcopyrite and galenite; in addition to secondary sulphides and oxidised minerals, the ore contains soluble copper, zinc and iron salts, as well as small quantities of other materials. The dissemination of the sulphide minerals is non-uniform; the main losses of copper and lead in the zinc concentrates when the ore is ground to 90% - 74  $\mu$  occur as concretions. The staged grinding and flotation adopted are said to consist essentially of first-stage flotation at 42-50% - 74  $\mu$  to give a copper-lead concentrate with 20-26% Pb (recovery 60-70%), 10-14% Cu (recovery 40-50%) and 7-10% Zn (loss under 6-9% of content in the ore); this is followed by a second-stage in which hydrocyclones and spiral classifiers are used. The characteristics of the two

Card 1/2

Operating Results of the Zolotushinsk Beneficiation Works under a  
Staged Flow Sheet

136-1-4/20

stages have been described previously (Ref.1). The authors show the flow sheet of the staged process as used since May 15, 1956 and tabulate comparative data on this and on the previously used selective-flotation scheme (Tables 1 and 2). Besides lowering the metal contents of the tailings, the adoption of the new scheme (with appropriate plant and organisational changes) is said to have led to a 7% increase in the weight of ore treated per unit time with a 35% decrease in costs per ton of ore. An editorial note points out that the higher lead recovery and decreased lead and copper losses in the tailings have taken place on account of the deterioration of the lead concentrate.

There are 1 figure, 2 tables and 1 Russian reference.

ASSOCIATION: Uralmekhanobr and the Zolotushinsk Beneficiation Works (Zolotushinskaya obogatitel'naya fabrika)

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Card 2/2

Lagert, I. K.

69. Method of Disinfecting Small Contaminated Surfaces

"Decontamination of Surfaces With Small Doses of a Disinfecting Agent," by I. K. Lagert, Candidate of Biological Sciences, Voyenno-Meditsinskiy Zhurnal, No 4, Apr 57, pp 45-48

The author describes a new method which uses small amounts of a disinfecting agent applied under pressure to horizontal and vertical surfaces. For the experiments, different surfaces, 100 cm<sup>2</sup> in area, were prepared. The different test materials used were wood--unpainted or covered with an oil-based paint--aluminum, iron, or glass. To these were applied bacterial mixtures containing 20 million bacteria per square centimeter. The experimenters used dry cultures of *B. coli* whose thermal and phenol resistivity were known.

An 0.05-0.5-percent chloramine solution was sprayed on the test surfaces with an atomizer under a pressure of 2-2.5. As a preliminary, the agar slide method was used to determine the degree of bacterial contamination of the surfaces (see M. I. Borob'yev, Voyenno-Morskiy Vrach, No 1, 1951). A round piece of sterile filter paper, 3.5 cm in diameter, was placed on the contaminated surface, removed after 3 or 4 minutes, and placed face down on the culture medium. Sodium thiosulfate was added to the agar in an amount equivalent to the active chlorine present in the chlorine solution.

In the laboratory, reliable bactericidal effects were obtained on horizontal surfaces with 200, 100, and 50 ml per square meter of 0.5-0.1 percent chloramine solutions. On the vertical surfaces, best results were obtained by using 50 and 100 ml of the disinfecting solution per square meter.

The effectiveness of small amounts of a disinfecting solution having been established, the experiments were extended to find the most efficient manner of utilizing the method for practical purposes (on walls, floors, and on various objects). Different sprayers were tested, having nozzle apertures varying between 1.5 and 1.8 mm and using pressures of up to 3 atmospheres. Best results were obtained with a paint spraying apparatus, the KR-20. It was found that 50, 25, and 15 ml of the disinfecting solution applied to one square meter of surface resulted in complete destruction of microbial life after 5 minutes.

Results from all experiments led to the conclusion that the bactericidal effectiveness of such an apparatus depended not so much on the amount of the disinfectant used as on the method of use.

Another series of experiments was designed to study the value of added surface-active auxiliary substances which would lower the surface tension of the solutions. OP-10, one of the polyethyleneglycol-alkylphenyl group of ethers was tested as a wetting agent. It is an oily, viscous, greenish-brown fluid with a weak turpentine odor. OP-10 dissolves readily in water and has good wetting qualities. When 0.2-0.5 percent of the OP-10 is added to a disinfecting solution, the latter forms a continuous thin cover film.

Based on their experiments, the investigators concluded the following:

"1. The effectiveness of surface sterilization depends on the concentration of the disinfecting solution, on the physical properties of the solution, and on the manner of its application.

"2. If a 25-percent concentration of an atomized disinfecting solution is finely dispersed, the normal amount can be cut in half for the majority of surfaces.

"3. Use of auxiliary nonionogenic surface-active substances (OP-10) improves the wettability of most surfaces (painted wood, iron, glass, etc.) and increases the bactericidal effect." (U)

54m 1429

LAGERT, I.K., kand.biol.nauk

Bactericidal freon aerosols and their use on ships. Voen.-med.  
zhur. no.8:52-55 Ag'58. (MIRA 16:7)  
(NAVAL HYGIENE) (BACTERICIDES) (AEROSOLS)  
(FREONS)

LAGERT, I.K., kand.biologicheskikh nauk; SPERANSKAYA, V.N., kand.biologicheskikh nauk

Effectiveness of combined freon aerosols with a bactericidal insecticide action. Voen.-med. zhur. no.8:66-68 Ag '60.

(INSECTICIDES) (FREONS) (AEROSOLS) (MIRA 14:7)

FEDOROV, M.N.; LAGERT, I.K.

Use of cysteine in differentiating the bactericidal and bacteriostatic effects of mercury preparations. Zhur.mikrobiol., epid.i immun. 33 no.8:49-51 Ag '62.  
(MIRA 15:10)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta antibiotikov.

(MERCURY COMPOUNDS) (CYSTEINE)

LIBOV, A.L., prof.; VERESHCHAGIN, I.A., kand. med. nauk; LAGERT, I.K.,  
kand. med. nauk; OSTROVSKIY, A.D., kand. med. nauk; POLYAKOVA L.K.

Treatment of dysentery in children using strepto-sulfanilamide.  
Sov. med. 27 no.12:78-79 O '64. (MIRA 18:11)

1. Otdel detskikh infektsiy (nauchnyy rukovoditel' - prof.  
A.L. libov) Leningradskogo nauchno-issledovatel'skogo instituta  
antibiotikov (dir.- doktor med. nauk A.N. Klimov) Ministerstva  
zdravookhraneniya SSSR na baze detskoy infektsionnyy bol'nitay  
Leninskogo rayona (glavnyy vrach K.A. Dudkina), Leningrad.

LAGEVSKIY, N. A.

USSR/Diseases of Farm Animals. Diseases of Unknown R-4  
Etiology.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92758

Author : Lagevskiy, N. A.  
Inst : Leningrad Scientific Research Veterinary  
Institute.  
Title : The Toxic Dystrophy of the Liver in Young  
Pigs (TDL).

Orig Pub : Byul. nauchno-tekhn. inform. Leningr. n.-i.  
vet, in-ta, 1957, vyp. 3, 16-18

Abstract : It is indicated that the diagnosis and treatment of toxic dystrophy of the liver in young pigs (TDL) have not been sufficiently developed. The etiology of the disease has not been determined as yet sufficiently, thus making difficult the adoption of prophylactic

Card : 1/2

LAGIDZE, A.D.

Skidding timber in mountains and its effect on the remaining  
growing trees, forest regeneration, and soil. Trudy Inst. lesa  
AN Gruz. SSR 10:215-228 '62. (MIRA 17:3)

LAGIDZE, A.D.

Mechanization of lumbering and its effect on the remaining growing trees, young growth, and sprouts in selective felling of varied intensity. Trudy Inst.lesa AN Cruz.SSR 11:213-221 '62.

(MIRA 16:2)

(Georgia—Lumbering)

ZAKHARYCHEV, A.V.; LAGIDZE, D.R.; ANANCHENKO, S.N.; TORGOV, I.V.

Synthesis of 18-nor-13-alkylestrones. Izv. AN SSSR. Ser. khim. no.4:  
760 '65. (MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

LAGILZE, D.R.; ANANCHENKO, S.M.; TORGOV, I.V.

Preparation of 2-alkyl-1,3-cyclopentanedicarboxylic acid. Izv. Akad. Nauk. SSSR, Khim. no.10:1899-1901 '65. (ZER4 13:10)

1. Institut khimii prirodnnykh sozedenii AN SSSR.

ZEDGINIDZE, Ye.N.; LAGIDZE, N.A.

Refractory concretes based on the slag portland cement of the  
Rustavi Cement Factory. Trudy Inst. prikl. khim. i elektrokhim.  
AN Gruz. SSR no. 1:161-169 '60. (MIRA 14:2)  
(Slag cement) (Concrete)

DZHAPARIDZE, L.N.; LAGIPZE, N.I.

Effect of some ion-exchanging compounds on manganese dioxide  
electrode efficiency. Trudy Inst. prikl. khim. i elektrokhim.  
AN Gruz. SSR 4:3-8 '63. (MIRA 17:5)

LAGIDEE, R.M.

Def. at  
Tbilisi State U.



Candidate Chemical Substances

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Investigation of the Diesel fraction of the primary tar of Tikhilak shales. R. M. Lashko [Chem. Inst., Acad. Sci. Georgian S.S.R., Tbilisi]. Bull. Acad. Sci. Georgian S.S.R., 7, 383-60 (1946).—The group compn. of the fraction b, 200-325° (40.0% of the tar) was detd. by the ring method of Vlugter, Waterman, and van Wiegert (C.A. 29, 7057\*) and by that of Sakhyanov (*Izvdy nauchno-tekhnichesk. inst. Grasseff* 1931), after elimination of O compds., through treatment with asstd. FeCl<sub>3</sub> in HCl. From the 1st method, 20 ml. was hydrogenated for 3-4 hrs. at 270-300° under 100 atm. over a catalyst prep'd. by ppts. of Ni(No<sub>3</sub>)<sub>2</sub> + Al(No<sub>3</sub>)<sub>3</sub> and reduction in H<sub>2</sub>. From the mol. wt., refraction, d., and melting point, the compn. is: O compds. 21.4, aromatic rings 11.63, cycloparaffin rings 19.49, paraffin hydrocarbons 47.48. By Sakhyanov's method of treatment with 90% H<sub>2</sub>SO<sub>4</sub> (3:5:1), the compn. is: O compds. 21.5, aromatic hydrocarbons 35.3, methylenic hydrocarbons 10.45, paraffin hydrocarbons 26.85. Obviously, by the 2nd method, unsatd. hydrocarbons are included in the aromatic; subtracting the amt. of the latter, as given by the 1st method, one finds the amt. of the former. On the other hand, the amt. of paraffins given by the 1st method evidently includes unsatd. hydrocarbons which are hydrogenated to asstd. compds. Thus, no single method is adequate; combination of the 2 methods gives: O compds. 21.4, unsatd. 23.67, aromatic compds. 11.63, cycloparaffins 19.49, paraffins 23.72.

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LAGIDZE, R. M.

Glycols

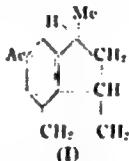
Cleavage of diethylene glycol diacetate by the action of anhydrous aluminum chloride.  
Soob. AN Gruz. SSR 11, No. 8, 1950.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

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**Alkylation of benzene with 1,3 butanediol diacetate and 2,4,6 hexanetriol triacetate.** — G. M. Kosolapoff, *Bethesda*, *Ind. Nach. S.S.R.* **77**, 1021 (1951). Butanediol with the calcd. amt. of Ac<sub>2</sub>O-NaOAc gave the diacetate, *b*<sub>1</sub> 90°, d<sub>25</sub> 1.0270, n<sub>D</sub><sup>25</sup> 1.4295, which heated 1 hr. to 150° with 2 parts AlCl<sub>3</sub>, gave a little *1-chloro-3-acetoxybutane*, *b*<sub>1</sub>, 47.52°, d<sub>25</sub> 1.0631, n<sub>D</sub><sup>25</sup> 1.4490. Slow addn. of the diacetate to CaH<sub>2</sub> and AlCl<sub>3</sub> (mol. ratio 1:3:2) and stirring 11-12 hrs., gave after the usual treatment 63.5% *PhCH<sub>2</sub>CH<sub>2</sub>CH(OAc)<sub>2</sub>Me*, *b*<sub>1</sub>, 84.0°, n<sub>D</sub><sup>25</sup> 1.5020, d<sub>25</sub> 0.9690, n<sub>D</sub><sup>25</sup> 1.4020; hydrolysis with KOH gave the corresponding *al*, *b*<sub>1</sub>, 90.7°, d<sub>25</sub> 0.9630, n<sub>D</sub><sup>25</sup> 1.5100, and, in addition, a small amt. of C<sub>6</sub>H<sub>6</sub>O, possibly *m-MePhCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Li*, *b*<sub>1</sub>, 105.8°, d<sub>25</sub> 1.0600, n<sub>D</sub><sup>25</sup> 1.2295 (*semicarbazone*, m. 183.4°). CaH<sub>2</sub> and AlCl<sub>3</sub> reacted similarly with *2,4,6-hexanetriol triacetate*, *b*<sub>1</sub>, 125.40°, d<sub>25</sub> 1.0740, n<sub>D</sub><sup>25</sup> 1.0710 (obvious typographical error); from the products could be isolated some *1,6-dichloro-2-acetoxyhexane*, *b*<sub>1</sub>, 98.101°, d<sub>25</sub> 1.0862. Reactions run with a 1:5:4 molar ratio gave (from 30 g. triacetate) 60 g. condensate which on fractionation yielded some AcPh, some 60% of the above di-Cl deriv., and a moderate amt. of a *keto*, *b*<sub>1</sub>, 130.5°, d<sub>25</sub> 1.0588, n<sub>D</sub><sup>25</sup> 1.5710 (*semicarbazone*, m. 221.5°), possibly having the structure (I).



reduction gave the corresponding *hydrocarbon*, *b*<sub>1</sub>, 103°, d<sub>25</sub> 0.9690, n<sub>D</sub><sup>25</sup> 1.5540. — G. M. Kosolapoff

LAGIDZE, R. M.

LAGIDZE, R. M. - "Condensation Reactions of Aromatic Hydrocarbons Over Aluminum Chloride With the Acetates of Saturated Polyatomic Alcohols and Beta-Acetylenic Glycols." Sub 20 Mar 52, Inst of Organic Chemistry, Acad Sci USSR. (Dissertation for the Degree of Doctorates in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

LAGIDZE, R. M.

USSR/Chemistry - Alkylation

11 Mar 52

"The Alkylation of Benzene With the Diacetate of  
1, 4-Butenediol in the Presence of  $\text{AlCl}_3$ ," R. M.  
Lagidze, A. D. Petrov, Corr Mem, Acad of Sci USSR,  
Inst of Org Chem, Acad Sci USSR; Inst of Chem,  
Georgian SSR

"Dok Ak Nauk SSSR" Vol LXXXIII, No 2, pp 235-238

In the alkylation of benzene with the diacetate of  
1, 4-butenediol, the product is  $\text{C}_{14}\text{H}_{10}$ . Two mols  
of the diacetate become attached to either side of  
the benzene ring giving a new isomer of anthracene  
and phenanthrene. The behavior of the new

214TR25

substance is interesting and resembles that of  
cyclooctatetraene in some respects.

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LAGIDZE, R. M.

USSR

Condensation reactions of the diacetates of 1,3- and 1,4-dianediols with benzene and toluene in presence of anhydrous aluminum chloride. R. M. Lagridze and B. S. Polikarpov. Tbilisi, 1953. Acad. Nauk. Sci. Georgian S.S.R., Tbilisi. Soobshcheniya Akad. Nauk. Gruzin. S.S.R., 14, No. 8, 473-80 (1953). -  $\text{MeCH}_2(\text{OAc})_2$  (Ia),  $\text{C}_6\text{H}_5$  anhyd.  $\text{AlCl}_3$ , (1:1:2.25 moles, resp.) were condensed during 12-14 hrs at higher temp. than those previously used (cf. C.A. 46, 3972b). Besides the products previously obtained 7-acetyl-1-methylindenene (II) [which by treatment with  $\text{Zn-Hg}$  and acid yielded 1-methyl-7-ethylindenene (attempt to reduce I over  $\text{Pd-C}$  were unsuccessful)], and  $\sigma\text{-PhCH}_2\text{MeCH}_2\text{CH}_2\text{C}_6\text{H}_5\text{OAc}$  were isolated. Similar condensation reactions of Ia and 1,4-butanediol diacetate (IIa) occur in toluene. Ia yields the following:

1/

IV 63

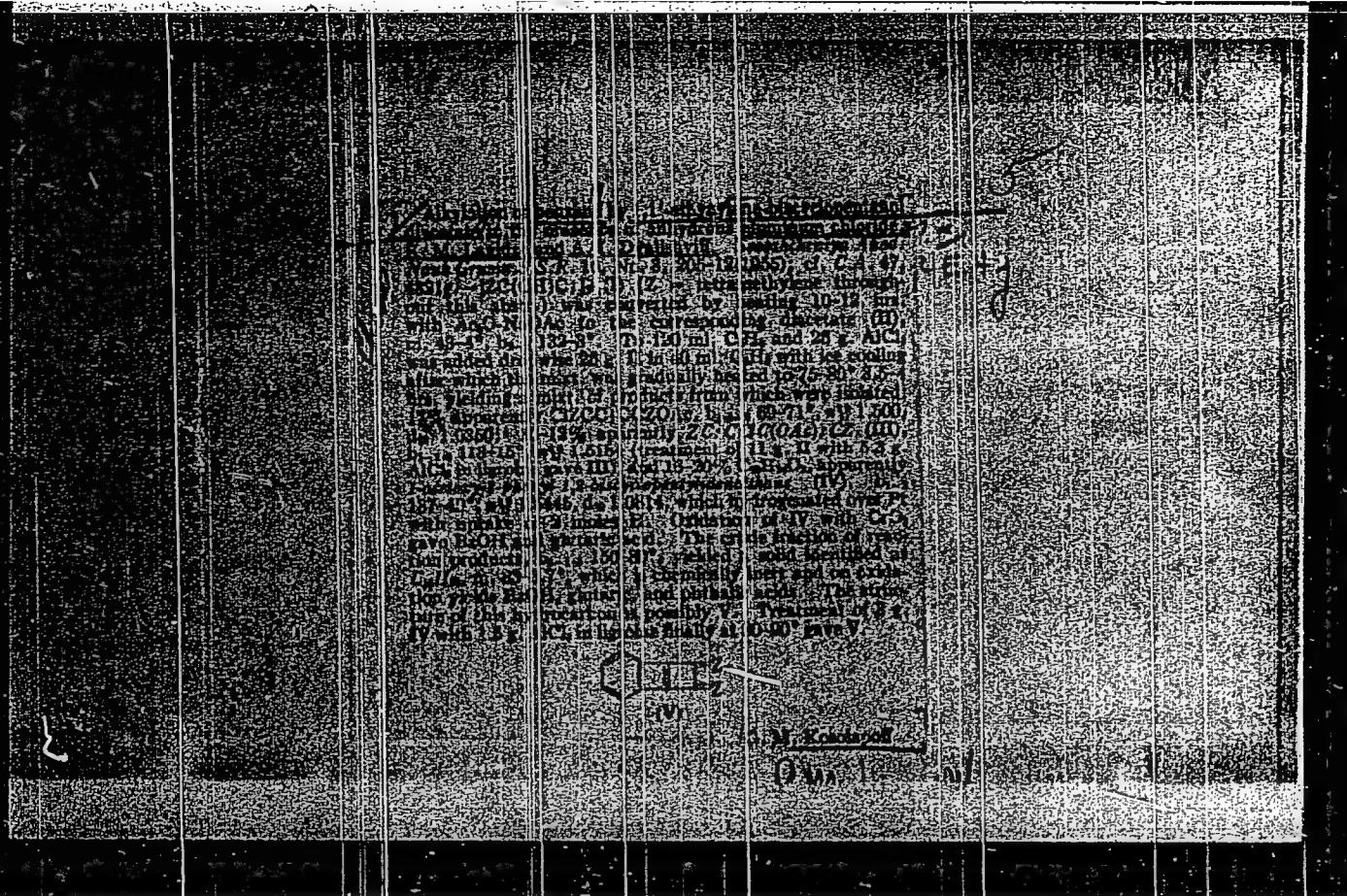
8-*p*-tolyl-1-acetoxybutane, 3-*p*-tolyl-1-butanol, 7-acetyl-1,6-dimethylhydrindene, (II), and 1,6-dimethyl-7-ethylhydrindene (III). On oxidation with KMnO<sub>4</sub>, II yielded benzene-1,2,3,4-tetracarboxylic acid ( $\mu$ : 241-2 $\frac{1}{2}$ ). III failed to dehydrogenate. IIIa yields the following: 1-(*p*-Tolyl)-4-acetoxybutane, 3-acetyl-7-methyltetralin (IV), from which was then obtained 8-ethyl-7-methyltetralin, which then by dehydrogenation yielded a compd. ( $b$ : 108-7 $\frac{1}{2}$ ). Oxidation of a ketone obtained by condensation of triacetyl 2,4,6-hexatrieno with C<sub>6</sub>H<sub>6</sub> yielded benzene-1,2,3,4-tetracarboxylic acid. This ketone failed to dehydrogenate with Pd-C. Its structure was shown to be:



M. Dymick

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HAGIDZE R. M.

tion of benzene with tetrakis(ethylvinyl)neocloro dicarboxylic acid in the presence of anhydrous aluminum chloride. R. M. Kostyuk and N. R. Lomidze [J. G. Melikishvili Inst. Khim. Soobshcheniya Akad. Nauk Gruzin. S.S.R. 16, No. 8, 807-14 (1955)]. To 150 g.  $C_6H_6$  and 80 g.  $AlCl_3$  was added in 30-40 min. 10 g.  $(C_2H_5)_2CO_2Cl$ , after 1.5-2 hrs. at  $0-5^\circ$  the mixt. was kept 7 hrs. at not over  $82^\circ$  and was then treated with acidified  $H_2O_2$  and extd. with  $Et_2O$ , yielding 22%  $Me_2C:Cl(OAc)Cl: CMe_2$ , b.p. 64-67°, 40-5% compd. (I),  $C_9H_{14}$ , m. 82.8-3.3°, and  $Me_2C: C(OAc)CPk$ ,  $C_7H_8$ , obtained only in crude form. Oxidation of I with  $AcOH$  gave a ketone,  $C_8H_8O_2$ , m. 173-1° which further to  $Me_2CO$  and a neutral substance, m. 20-3°.

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CIA-RDP86-00513R000928420009-7"

Lagidze, R. M.

USSR/Organic Chemistry. Theoretical and General Problems  
of Organic Chemistry.

E-I

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19022

Author : Lagidze R. M., Loladze N. R.

Inst : \_\_\_\_\_

Title : On the Mechanism of the Reaction of the Isomeric Formation  
of -acetotetralene by Means of Condensation of Diacetate  
1,4-butenediole with Benzene in the Presence of Anhydrous  
 $\text{AlCl}_3$ .

Orig Pub: Tr. In-ta Khimiyi AN Gruz SSR, 1956, 12, 63-71.

Abstract: At the condensation of the diacetate 1,4-butenediole (I)  
and  $\text{C}_6\text{H}_6$  in the presence of  $\text{AlCl}_3$  (10 hours, 85°) a pro-  
duct is obtained  $\text{C}_{12}\text{H}_{14}\text{O}$  (II), (boiling p. 119-121°/2-3  
mm.,  $n^{20}_{\text{D}} 1.5700-1.5690$ ,  $d_4^{20} 1.0502$ ). Suggested formula  
for II is 2-acetyl-7,8-dimethylbicyclo- 0,2,4-octatriene-  
1,3,5 (IIa), or -acetotetralene (IIb) based on the ex-

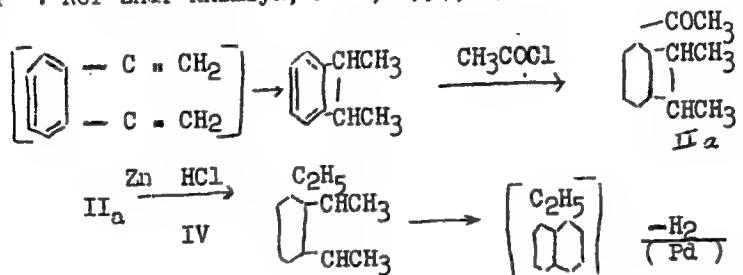
Card : 1/3

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USSR/Organic Chemistry. Theoretical and General Problems  
of Organic Chemistry.

E-I

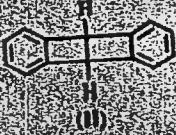
Abs Jour : Ref Zhur-Khimya, No 6, 1957, 19022



Card : 3/3

TH-151 4515/1830/1820(3)

Combination reactions of substituted 1,3-diene-5-penoic acids with malonodinitrile, malonodiborane, or malonodiborane-aluminum chloride. Part I. Preparation of 1,3-dienyl-7-oxo-1,3-dihydro-5-penoic acids. P. C. Melville, J. R. Vining, and J. E. K. Smith. *J. Org. Chem.*, 30, 1567-1572 (1965). Combination of 1,3-dienyl-7-oxo-1,3-dihydro-5-penoic acid with  $\text{C}_6\text{H}_5\text{CH}_2\text{CO}_2\text{Na}$  yields 70-75% 5-methyl-7-oxo-1,3-dihydro-5-penoic acid and a small amount of  $\text{C}_6\text{H}_5\text{CH}_2\text{CO}_2\text{Na}\text{C}_6\text{H}_5\text{CH}_2\text{Ph}$ . Under more vigorous conditions up to 18% 5,7-dimethyl-7-oxo-1,3-dihydro-5-penoic acid can be reduced to 1-methyl-7-oxo-1,3-dihydro-5-penoic acid. Combination of 1,3- $\rightarrow$ 1,4-cyclized dienoate with  $\text{Ti}(\text{Cl})_4/\text{LiAlD}_4$  gives an analogous series up to 75% 5,7-dimethyl-7-oxo-1,3-dihydro-5-penoic acid, which can be reduced to 7-methyl-1,3-dimethyl-7-oxo-1,3-dihydro-5-penoic acid and 1-(7-methyl-1,3-dimethyl-7-oxo-1,3-dihydro-5-penoic acid) derivative of Tetralin which can be reduced to 7-methyl-1,3-dimethyl-7-hydroxy-1,3-dihydro-5-penoic acid. Alkylation of  $\text{C}_6\text{H}_5\text{CH}_2\text{CO}_2\text{Na}$  with 1,3-dienyl-7-oxo-1,3-dihydro-5-penoic acid gives a hydrocarbon,  $\text{C}_{14}\text{H}_{16}\text{O}_2$ , which can be reduced to a hydrocarbon,  $\text{C}_{14}\text{H}_{14}$ , which gives two 1,6-



(1) assumed. Condensation of 1,4-benzenediol diacetate with  $C_6H_6$  yields among other products a hydrocarbon. This substance can be hydrogated (Raeyy NII) to a yellow oil of 1001, m. t. 183  $\pm$  10, (cyclohexane), 184, and called for  $C_{10}H_{14}$ . All known hydrocarbons having the formula  $C_{10}H_{14}$  differ from the compound in question.

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CIA-RDP86-00513R000928420009-7"

10/21/02 R

This compd. does not decompose in H<sub>2</sub>O or alk. KMnO<sub>4</sub>. It can not be hydroxylated over Pt, does not undergo Diels-Alder synthesis with maleic anhydride and does not form a picrate. If heated to 100°C in 10% C<sub>2</sub>H<sub>5</sub>NO<sub>2</sub>, at 120°, this compound can be reduced to an amine, m.p. 16° which can be determined by titration with aromatic couplers yielding colored substances. Oxidation of the amine gives a red Bi(OH)<sub>3</sub> and traces of (HCO<sub>2</sub>)<sub>2</sub>C<sub>4</sub>H<sub>9</sub>. Oxidation by CrO<sub>3</sub> in glacial AcOH yields Bi(OH)<sub>3</sub> and a yellow substance, m.p. 111-12°, giving reaction with NaOH. This product reacts with concentrated H<sub>2</sub>SO<sub>4</sub> to give a brownish red salt, m.p. 140°, which reacts with OHNH<sub>2</sub>·HCl to form a red monohydrate, m.p. 170°, with P<sub>ANH</sub> it forms a blue monohydrate, m.p. 150°. This monohydrate is soluble in cold water. It reacts with AgCl in presence of H<sub>2</sub>SO<sub>4</sub> to readily yield Br forming a bromide, m.p. 133°, which reacts with NaOH to form a weak KMnO<sub>4</sub> salt, MnO<sub>2</sub> solid, which was mainly Bi(OH)<sub>3</sub> and some manganite, MnOOH solid, which was not characterized. CO<sub>2</sub> could be detected by titration in 10% NaOH solution, m.p. 177°. Investigation indicated no extremely sym. mol. Structure II is proposed.

10/21/02 R  
J-Sayz

in the presence of  $\text{PbO}$  and  $\text{As}_2\text{O}_3$ .  
Reaction of  $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$  with  $\text{As}_2\text{O}_3$  gave the  
corresponding  $\alpha$ - $\text{As}_2\text{O}_3$  adduct.  $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$   
and  $\text{As}_2\text{O}_3$  in benzene at  $110^\circ\text{C}$  for  
10 hr. The quinoline (20 g.) and 50 ml. benzene  
was treated with 0.5 N  $\text{NaCl}$  heated & then up-

to  $100^\circ\text{C}$  with  $\text{H}_2\text{O}_2$  yielding  $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$  and  
 $\text{As}_2\text{O}_3$  adducts. The  $\text{As}_2\text{O}_3$  adduct was  
heated with  $\text{KMnO}_4$  and adipic acid  
(1.025 g.) added with  $\text{CaCO}_3$  at  $160-180^\circ\text{C}$ .  
The manganese salt (25 g.) added with  
 $\text{AlCl}_3$  and then heated to give at  $70-80^\circ\text{C}$  a 90%  
yield of  $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$  which was identified as  
 $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$  by IR and mass spectra.  
A 1.025 g. portion of the manganese salt  
which does not contain  $\text{As}_2\text{O}_3$  was heated with  
 $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$  in 100% yield to give  
 $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$ . The very low  
yields obtained were very probably due to the loss  
of material isolated from the reaction  
 $\text{C}_6\text{H}_5\text{CH}_2\text{COCl}$ . This hydrocarbon was  
hydrogenated with  $\text{Pt/C}$  at  $300^\circ\text{C}$  to  $\alpha$ -methyl  
benzene and some outliers. The crude hydro-  
carbon was then purified.



1991/26 R.M.

Alkylation of benzene with hydrobiscrotonylhydroxycyclotriphosphazene diacetate in the presence of aluminum chloride. N. V. Lashina and Sh. D. Kuprava. PMM, No. 1, 1991, p. 116. ISSN 1062-1024 (print).  
See CA 51: 30534. B. M. H.

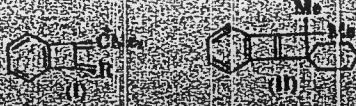
47 (1)  
3K  
3 May

Inst. Chem., AS GeSSR

CH71121 - R.W.

KUPFER, J.H. D.

There was also formed some neutral substance, m.p. 203°, which was identical with that formed on oxidation of Cu<sup>2+</sup> obtained previously from condensation of trimethylbutylenedioxy dicarboxylate with C<sub>6</sub>H<sub>6</sub>.



G. M. Kosolapoff

Reductive cyclization of dialdehydes and diketones by hydride. B. G. R. Blundell and V. S. Lindley (Queen's University, Belfast), *Chem. & Ind. (London)*, 1966, 1470. Conversion of (2-RCC)<sub>n</sub> (n = 2, 3) to reduced phthalimides and cyclic amines (I). Hall, *J. Am. Chem. Soc.*, 51, 473 (1929); by NaBH<sub>4</sub> to products for R = H (II) formed, Me, Br, and Ph. (III) -ORCO(NHCAH)<sub>n</sub> and (IV) -S(=O)(OH)<sub>n</sub>. C<sub>6</sub>H<sub>6</sub> gave 3,6-diazaanthraquinone and pyrene, respectively. No phys. const s. given. C. R. Young

2/2

P.M.W.T.  
P.M.

LAGIDZE, R.M.; LOLADZE, N.R.; PETROV, A.D.

Properties and transformations of the ketone "C<sub>12</sub>H<sub>14</sub>O" obtained through the alkylation of benzene by the diacetate of 2-butyne-1,4-diol in the presence of anhydrous aluminum chloride. Soob. AN Gruz. SSR 19 no.3:279-284 S '57.

(MIRA 11:5)

1. Akademiya nauk Gruzinskoy SSR, Institut khimii im. P.G. Melikishvili, Tbilisi. Predstavлено членом-корреспондентом Akademii G.V. TSITSISHVILI.  
(Ketones)

LAGIDZE, R.M.; POTSKHVERASHVILI, B.S.

~~Alkylation of cumol by 1,3- and 1,4-butanediol diacetates in the presence of  $\text{AlCl}_3$ .~~ Soob. AN Gruz. SSR 19 no. 4:429-436 o '57.  
(MIRA 11:5)

I. Institut khimii im. P.G. Melikishvili AN GruzSSR, Tbilisi. Predstavleno chlenom-korrespondentom AN GruzSSR G.V. TSitsishvili.  
(Cumol) (Alkylation) (Butanediol)

LAGIDZE, R.M.; POTSKHVERASHVILI, B.S.

Alkylation of ethylbenzene, o-xylene, and phenol with 1,3- and 1,4-butanediol diacetates in the presence of anhydrous  $\text{AlCl}_3$ . Soob. AN Gruz. SSR 19 no.6:685-692 D '57. (MIRA 11:6)

1. Institut khimii im. P.G. Melikishvili AN GruzSSR, Tbilisi.  
Predstavleno chlenom-korrespondentom AN GruzSSR G.V. TSitsishvili.  
(Alkylation)

IREMADZE, N.K.; IAGIDZE, R.M.

Reaction between anhydrous aluminum chloride and the diacetate  
of 2,5-diphenyl-3-hexyne-2,5-diol. Trudy Inst.khim. Akad.Gruz.SSR  
14:159-164 '58. (MIRA 13:4)  
(Aluminum chloride) (Hexynediol)

LAGIDZE, R.M.; CHIGOGIDZE, L.P.

Factors furthering menthone accumulation in the pink geranium.  
Soob. AN Gruz. SSR 20 no. 3:299-306 Mr '58. (MIRA 11:7)

1. AN GruzSSR, Institut khimii im. P.G.Melikishvili. Predstavлено  
академиком L.N.Dzhaparidze.

(Menthone)  
(Geraniums)

Sov/26-121-3-21/47

AUTHORS: Iacidze, I. M., Tremadze, N. K., Kuprava, Sh. D.,  
Petrov, A. B., Corresponding Member, Academy of Sciences, USSR

TITLE: The Alkylation of Benzene and Its Homologues by Acetic Esters  
of  $\gamma$ -Butylenic Glycols (Ob alkilirovani benzola i yego  
homologov uksusnokislykh estirami  $\gamma$ -atsetilenovykh glikolej)

PRIODICL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 5, pp.470-473  
(USSR)

ABSTRACT: For years the authors have been investigating the benzene  
alkylation by butyndiol as well as by other homologues of  
the latter (Refs. 1-6). They rectified an inaccuracy not noticed  
before (Ref. 7) by recognizing through a new scheme the product  
which originally was looked upon as 2-phenyl-naphthalene (I)  
as something different. In a letter Professor Khenkob (=?Hank-  
cock), Portland (Oregon, USA) approved of the opinions of the  
authors on the structure of the mentioned substance but he  
suggested a different scheme of formation. Professor Hancock  
pointed out to the authors that the second hydrocarbon syn-  
thesized by them (melting point 83-84°) is 5,5,10,10-tetra-  
methyl-1-4b,5,5b,10-tetrahydro-indeno (2,1-a)-indene (II) (Ref. 10).

Card 1/3

SOV/2c-121-3-21/47

The Alkylation of Benzene and Its Homologues by Acetic Esters of  $\gamma$ -Acetylene Glycols

The formation of 2-phenyl-naphthalene besides acetyl tetralin in connection with benzene alkylation by 2-butine-1,4-diol-diacetate was recently substantiated (Ref 11). At present both the scheme of the authors and that of Hancock begin to show difficulties. A more probable scheme is mentioned. Based upon various findings the authors are now convinced that the product with the melting point of 83-84° actually has a structure (II); this is what Hancock suggests. Condensation reactions in the presence of the anhydrous  $\text{AlCl}_3$  are investigated: 1) of 2,5-dimethyl-heptine-3-diol-2,5-diacetate with toluene, 2) of di-(1-oxyl)-cyclohexyl-acetylene-monosacetate with toluene and 3) of tetra-methyl-hutyndiol-diacetate with toluene and p-xylene. The reactions are described together with their yields, constants and spectra (Table 1). The ultraviolet spectra were taken by T. N. Shkurina, the infrared spectra by Yu. P. Yegorov. There are 1 table and 14 references, 11 of which are soviet.

Card 2/3

CV/Sc-121-3-21/47

The alkylation of Benzene and its chloro-derivative by acetic esters of  $\gamma$ -acetylene  
alcohols

ABSTRACT: Institut organicheskoi khimii im. N. D. Zelinskogo Akademii  
nauk SSSR  
(Institute of Organic Chemistry imeni N. D. Zelinskogo  
of USSR). Institut khimii Akademii nauk GruzSSR (Institute  
of Chemistry, AS GruzSSR).

SUBMITTED: April 30, 1950

Card 3/3

LAGIDZE, R. M.

СИНТЕЗЫ МОДЕЛЬНЫХ  
ПОЛИЦИКЛИЧЕСКИХ УГЛЕВОДОРОДОВ НЕФТИ  
СОСТАВА С<sub>n</sub>-С<sub>m</sub> НА БАЗЕ АЦЕТИЛЕНОВЫХ ГЛЮКОЛЕЙ

R. M. LAGIDZE

VIII Nasidzev Congress for General and Applied Chemistry in  
Section of Chemistry and Chemical Technology of Fuels,  
publ. by Acad. Sci. USSR, Moscow 1979

Abstracts of reports scheduled to be presented at above mentioned congress,  
Moscow, 15 March 1979.

LAGIDZE, R.M.; LOLADZE, N.R.; IREMADZE, N.K.; CHIGOGIDZE, L.P.;  
DVALISHVILI, A.I.

Alkylation of aromatic compounds by acetylene glycols in  
the presence of anhydrous AlCl<sub>3</sub>. Soob, AN Gruz.SSR 23 no.1:  
27-34 J1 '59. (MIRA 13:1)

1. AN GruzSSR, Institut khimii im. P.G.Melikishvili, Tbilisi.  
Predstavleno akademikom P.A.Kometiani.  
(Alkylation) (Glycols) (Aromatic compounds)

LAGIDZE, R.M.

Alkylation of benzene by acetates of  $\gamma$ -acetylenic glycols in the presence of anhydrous aluminum chloride. Trudy Inst.khim.AM Azerb.SSR 17:180-;94 '59. (MIRA 13:4)

1. Institut khimii AN GrusSSR.  
(Benzene) (Glycols) (Alkylation)

LAGIDZE, R.M.; DVALISHVILI, A.I.

Alkylation of benzene and some of its homologs by 1,1'-ethylene-bis-cyclopentanol diacetate in the presence of anhydrous AlCl<sub>3</sub>.  
Soob.AN Gruz.SSR 23 no.6:663-670 D '59. (MIRA 13:6)

1. Institut khimii im. P.G.Melikishvili AN GruzSSR Tbilisi.  
Predstavлено академиком R.I.Agladze.  
(Benzene) (Alkylation) (Cyclopentanol)

LAGIDZE, R.M.; CHIGOGIDZE, L.P.; IREMADZE, N.K.; KUPRAVA, Sh.D.; SAMSONIYA,  
G.G.

Alkylation of benzene and its homologs by diacetates of different  
 $\gamma$ -acetylene glycols in the presence of anhydrous aluminum  
chloride. Soob. AN Gruz. SSR 25 no.1;19-26 Jl 160. (MIRA 13:10)

1. Akademiya nauk Gruzinskoy SSR, Institut khimii im. P.G.Melikishvili,  
g. Tbilisi. Predstavлено академиком R.I.Agladze.  
(Alkylation) (Benzene) (Glycols)

LFC 102 E, R.M.

JUN 25 1963

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PHASE I BOOK EXPLOITATION

SOV/6195

Nauchnaya konferentsiya institutov khimii Akademii nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademii nauk Azerbaydzhanской, Armenian и Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaijan, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Slikuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

Card 1/11

## Materials of the Scientific Conference (Cont.)

SOV/6195  
50

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

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- Nanobashvili, Ye. M., and L. V. Ivanitskaya. The Effect of  $\gamma$ -Radiation on Colloidal Solutions of Gallium, Indium, and Thallium Sulfide 23
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LAGIDZE, R.M.; IREMADZE, N.K.; CHIGOGIDZE, L.P.; PALAVANDISHVILI, D.A.

Reactions involved in the alkylation of benzene by dissecondary  
 $\gamma'$ -acetylenic glycols in the presence of anhydrous  $AlCl_3$ . Soob.  
AN Gruz. SSR 28 no.4:409-416 Ap '62.

(MIRA 18:1)

1. AN Gruzinskoy SSR, Institut khimii im. P.G. Melikishvili,  
Tbilisi. Submitted February 9, 1951.

LAGIDZE, R.M.; LOLADZE, N.R.

New method of synthesizing alkyl derivatives of 2-phenylnaphthalene.  
Zhur. ob. khim. 32 no.5:1627-1633 My '62. (MIRA 15:5)

1. Institut khimii imeni P.G. Melikashvili AN Gruzinskoy SSR.  
(Naphthalene)

DVALISHVILI, A.I.; LAGIDZE, R.M.

Synthesis of some analogs and derivatives of spiro-[2,3,6,7-dibenzo-4,4',8,8'-dicyclopentyl-bicyclo-(3,3,0)-octane]. Soob.  
AN Gruz. SSR 28 no.6:657-663 Je '62. (MIRA 15:7)

1. Akademiya nauk Gruzinskoy SSR, Institut khimii imeni P. G. Melikishvili, Tbilisi. Predstavлено chlenom-korrespondentom AN Gruzinskoy SSR D.I. Eristavi.

(Bicyclooctane)

LAGIDZE, R.M.; AKHVLEDIANI, R.N.

Syntheses of some new thiols and their acetyl derivatives.  
Soob. AN Gruz. SSR 31 no. 3:577-580 S '63. (MIRA 17:7)

1. Institut khimii imeni P.G.Melikishvili AN GruzSSR,  
Tbilisi. Predstavлено академиком Г.В. Тсitsishvili.

KUPRAVA, Sh.D.; LAGIDZE, R.M.

Bromo- and nitro derivatives of hydrocarbons obtained by the alkylation of benzene and its homologs by 2,5-dimethyl-3-hexyn-2,5-diol and hydroxyisopropyl oxy cyclohexylacetylene in the presence of anhydrous  $\text{AlCl}_3$ . Soob. AN Gruz. SSR 36 no.3:573-577 D 1964.  
(KIR 18:3)

I. Institut Khimii im. P.G. Melikishvili AN GruzSSR, Tbilisi.  
Submitted June 17, 1964.

LAGIDZE, R.M.; IREMADZE, N.K.; CHIGOGIDZE, L.P.; KUPRAVA, Sh.D.;  
SAMSONIYA, G.G.

Alkylation of benzene and toluene by tert- $\beta$ -acetylenic  
glycols. Zhur. org. khim. 1 no. 11:1965-1969 N '65.

1. Institut fizicheskoy i organicheskoy khimii imeni P.G.  
Melikishvili AN GruzSSR. Submitted July 7, 1963. (MTRA 18:12)

LAGIDZE, R.M.; CHAVCHANIDZE, D.G.

Alkylation of benzene and some of its homologs with 3,6-diethyl-4-octyne-3,6-diol in the presence of aluminum chloride. Soob. AN GruzSSR 37 no.2:311-316 F '65.

(MIRA 18:3)

1. Institut khimii im. P.G. Melikishvili AN GruzSSR, Tbilisi.  
Submitted June 15, 1964.